# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 03/09/2021 09:07 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 12/15/2020 11:39 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 91417 | Expiration Date: | 03/31/2021 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124384 | -1 | 2.99 | 124497 | 3.03 |
| Blue | F | SSC | 125000 | 123109 | -2 | 3.96 | 123903 | 3.95 |
| Blue | E | FITC | 14203 | 13754 | -4 | 3.24 | 298 | 15.24 |
| Blue | D | PE | 25703 | 25200 | -2 | 2.94 | 544 | 11.00 |
| Blue | B | PerCP-Cy5-5 | 42104 | 40782 | -4 | 3.65 | 908 | 15.01 |
| Blue | A | PE-Cy7 | 34646 | 33707 | -3 | 4.85 | 486 | 29.74 |
| Red | C | APC | 49824 | 49087 | -2 | 3.16 | 1503 | 11.35 |
| Red | A | APC-Cy7 | 39773 | 38700 | -3 | 3.22 | 732 | 12.01 |
| Violet | B | V450 | 7447 | 7026 | -6 | 4.12 | 405 | 12.26 |
| Violet | A | V500 | 31193 | 29784 | -5 | 3.97 | 679 | 9.75 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21466 | 3.19 | 556 | 0 | N/A | N/A | Pass |
| Blue | F | SSC | 54512 | 3.43 | 518 | 6 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 57.02 | 488 | 2 | 0.0463 | 281 | Pass |
| Blue | D | PE | 108 | 39.92 | 490 | 5 | 0.3798 | 316 | Pass |
| Blue | B | PerCP-Cy5-5 | 176 | 36.19 | 581 | 4 | 0.0185 | 48 | Pass |
| Blue | A | PE-Cy7 | 111 | 64.86 | 625 | 5 | 0.0213 | 2 | Pass |
| Red | C | APC | 352 | 24.46 | 569 | 2 | 0.0294 | 191 | Pass |
| Red | A | APC-Cy7 | 204 | 25.00 | 545 | 1 | 0.0060 | 750 | Pass |
| Violet | B | V450 | 88 | 39.20 | 449 | 0 | 0.0468 | 1315 | Pass |
| Violet | A | V500 | 118 | 26.61 | 467 | 0 | 0.0277 | 383 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -32.28 | -31.90 | 1.02 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.39 |
| Red | 20.69 | 15.99 - 23.99 | N/A | N/A | 30.19 | 30.55 | 1.19 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.74

## Threshold

Threshold (FSC): 9689

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments